

July 23, 2015

MEMORANDUM FOR: Distribution Email

FROM: Christine Caruso Magee  
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SUBJECT: Scheduled Operational Changes and Upgrades for  
CPC, OPC, and WPC

The following accelerated items were implemented this past week:

RFC #384 – The salinity fields in NOS's CBOFS model have drifted this summer by about 4 PSU. A bias correction has been developed. This correction will be applied every 2 weeks through early fall or until the CBOFS model has been corrected. The Vibrio and Sea Nettles web pages will be restarted after implementing the salinity correction. Implemented on July 22 at 2100Z. (OPC)

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The following will be implemented the week of July 27, 2015:

RFC #385 – Update the LRF 2-class transmission - modified the archive file names to be more in accordance with archive file naming conventions. The files on web server remain the same. To be implemented on July 27 at 1200Z. (CPC)

RFC #386 – Autoblend - Adding functionality to ERF Autoforecast to generate VGF files for forecaster use. Also restoring functionality that was available in the RH5 version but was lost in transition to RH6. To be implemented on July 27 at 1200Z. (CPC)

RFC #387 - Add/modify NMAP restore files for storm motion parameters - change the naming convention of the Corfidi vectors to be more descriptive. Add restore files for storm motion parameters not paired with color-filled moisture or stability parameters. To be implemented on July 27 at 1200Z. (WPC)

RFC #388 - Fix bug in OPC product archive script where "nh" was not being allowed as a valid area. This was preventing the DIFAX charts from being archived. To be implemented on July 27 at 1330Z. (OPC)

RFC #389 - Fix issues with several NMAP2 restore files: 1) Wave ens mean wave height (meters): change from every 3m to 1m; 2) Gridded wave heights (meters): change color on the meter, not the half meter; 3) 925mb temp

advection not always plotting: expand CINT range; 4) Some GFS winds limited to 180hrs: set GDATTIM = fall. To be implemented on July 27 at 1400Z. (OPC)

RFC #390 – mpp-driver v1.0 - Install new application 'mpp-driver' for the mpp Python package CPC has installed operationally. The mpp Python package which contains libraries for post-processing model forecast data, including bias-correction, calibration, and creation of a continuous probability of exceedance (POE) from individual ensemble members. CPC will need this to create important tools used by the forecasters. To be implemented on July 27 at 1400Z. (CPC)

RFC #391 – merged-gridded-obs v1.0 - Install new application 'merged-gridded-obs' which merges 2 sources of gridded observations into a single observation grid. It essentially overlays a "top" dataset on top of a bottom dataset, such that wherever the top dataset is missing, the bottom dataset will show through. The top dataset is the "preferred" dataset, and the bottom dataset is the supplemental dataset. CPC will need this to create gridded datasets used for many of our operational products. To be implemented on July 27 at 1400Z. (CPC)

RFC #392 – calc-data-stats v1.0 - Install new application 'calc-data-stats' which calculates statistics (mean, variance, etc.) on a gridded dataset over a given period of time (ex. monthly mean 2m temperature, 1-week variance in merged tmean observations). CPC will need this to make averages/accumulations of gridded datasets used in operations. To be implemented on July 27 at 1400Z. (CPC)

RFC #393 - The CF script that disaggregates the Day 4-5 and Day 6-7 48-hr QPF into 6-hr forecasts is being upgraded. The current script uses a GEFS mean 6 and 48 hr QPF. The upgrade uses an average blend of the GEFS+ECENS+CMCE QPF mean. To be implemented on July 28 at 1900Z. (WPC)

RFC #394 – Making changes to support the NMFS Winter Cruise aboard the Research Vessel/Ice Breaker (RVIB) Nathaniel Palmer off Antarctica. Modify the image creation script to include 24 hours. Modify the email table to include the requested products and recipients. Activate 'auto\_antarctica.pl' and 'GRtofs\_AntarcticImages.csh' scripts in cron on IDP. Disable the same crons at the end of the cruise (1 Sept 2015). To be implemented on July 30 at 1130Z. (OPC)

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The following CPC OPC WPC RFC(s) are in progress:

RFC #368 – 72 hour Arctic Charts – Created a 72-hour Pacific Arctic surface chart at the urgent request of Alaska Region Headquarters for U.S. Bureau of Ocean Energy Management DSS briefings. This includes the scripts and table

changes needed for the forecaster to create a starting vgf and create a gif image and disseminate that image on the OPC web page in an unlinked location. It also includes updates to monitoring scripts and web pages. Was to have been implemented from July 9 through July 16. OPC/OAB is waiting on OPC management approval before implementing this change. New implementation date TBD. (OPC)

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The following NCO RFCs to be implemented the week of July 27, 2015 may affect CPC, OPC, and/or WPC:

RFC #1133 - WCOSS Dataflow v1.63.3, NCOSRV Dataflow v2.6.13 - Modify the DBNet tables on WCOSS and NCOSRV to prepare for the RTOFS (Real-Time Ocean Forecast System) Global GEMPAK grids. This is a new request from NHC based off of OPC scripts. They will be routed to NHC and OPC as soon as the files are running in the RTOFS Global Parallel. To be implemented on July 27 at 1200Z.

RFC #1141 – NWSchat r855 - Change the NWSchat pyWWA parser to fix lat/lon decoding and invalid warning polygons. Some field offices are including river forecast data in the signature section of the products. The current ingest code does not expect this data and takes it in as valid data. This update should cause no outage and increase the accuracy of products presented by the NWSchat service. To be implemented on July 27 at 1530Z.

RFC #1142 – NWSchat r859 - Merge "Eastern Great Basin" and "Western Great Basin" to "Great Basin". NIFC (National Interagency Fire Center) merged the Eastern Great Basin and Western Great Basin zones into a single Great Basin zone (<http://gacc.nifc.gov/gbcc/aop.php>). This update reflects this re-organization in the registration for new accounts on NWSchat. This update reduces user confusion when they are selecting their organization when requesting a new NWSchat account. To be implemented on July 27 at 1530Z.

RFC #1152 - WCOSS Dataflow v1.63.5, NCODF Dataflow v2.6.1, NCOSRV Dataflow v2.6.15 - The DBNet software on WCOSS and Ncosrv will be configured to send the parallel GMOS (Gridded Model Output Statistics) and GLAMP (Gridded Localized Aviation MOS Program) models to users for evaluation. To be implemented on July 29 at 1200Z.

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The following NCO RFC(s) are in progress and may affect the local Centers:

RFC #1093 – CPC Compute Farm Puppet Updates – Updates to Puppet will be made to allow the users and mounts to be managed in Puppet. Currently only

the packages on CPC CF servers are managed in Puppet. Implementation began on July 15 at 1400Z and should be completed by July 29.

RFC #1096 – WCOSS: SP5 Software Upgrade v5.0 - IBM will apply the Service Pack 5 software upgrade to the WCOSS systems. Included in this upgrade are changes to RHEL, GPFS, IBM PE, IBM xCAT and several other components. IBM software support has released its latest HPC software stack service pack and is urging all x86\_64 based Infinisband HPC Cluster customers to apply it to maximize product support, and address some known system issues. Tide work is still ongoing. Gyre will be completed in August. There will be a 2-day outage on Gyre when the work is being done.

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Please note that security-related RFCs are never listed in the RFC memo.

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---- OPERATIONAL ANNOUNCEMENTS ----

1. The CPC/OPC/WPC Configuration Management documents are available at <https://sites.google.com/a/noaa.gov/nws-ncep-nco-cm/>.

Please review these documents if you have questions prior to submitting changes for CPC/OPC/WPC configurable items.